

FIG.1

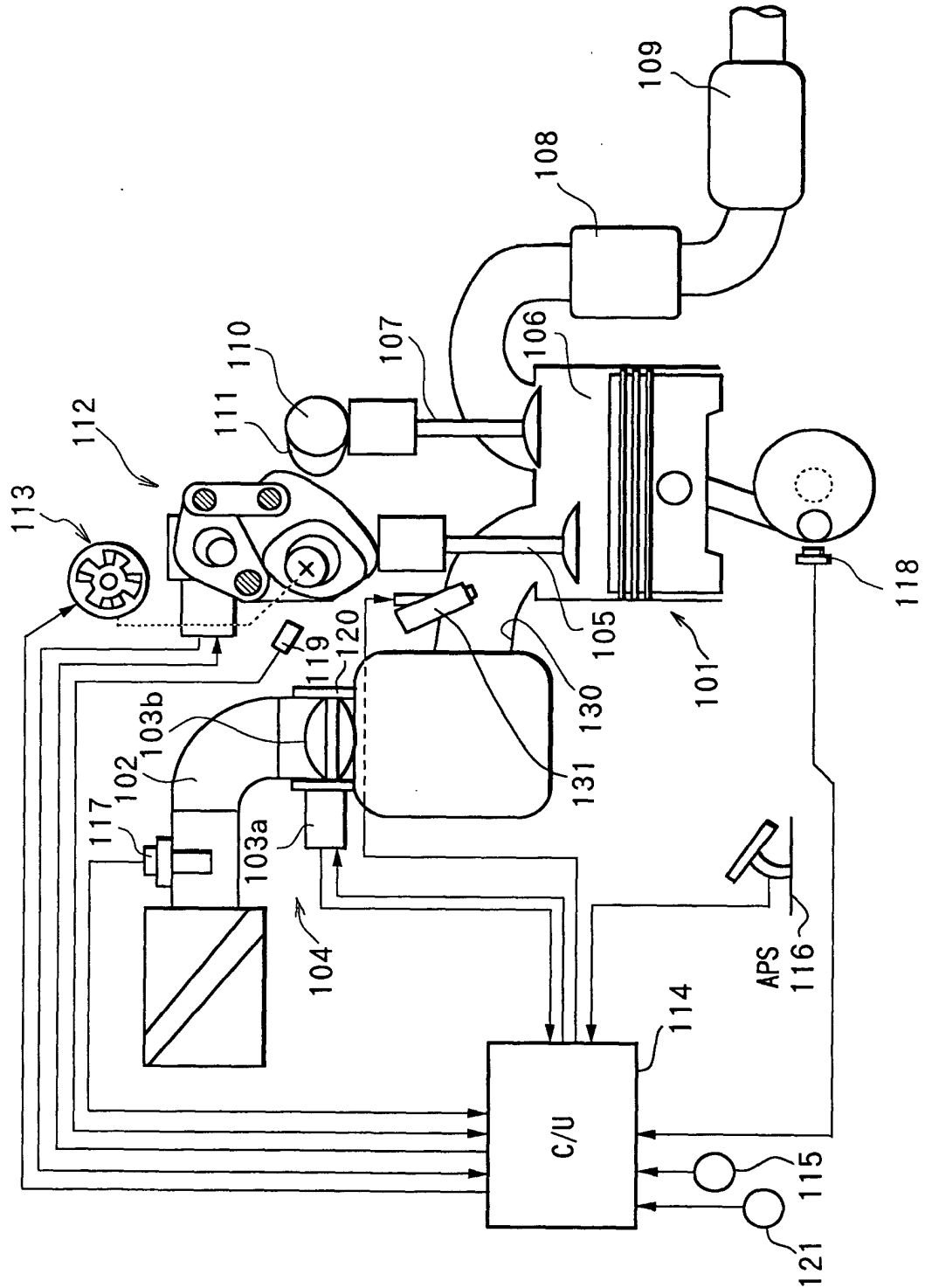


FIG.2

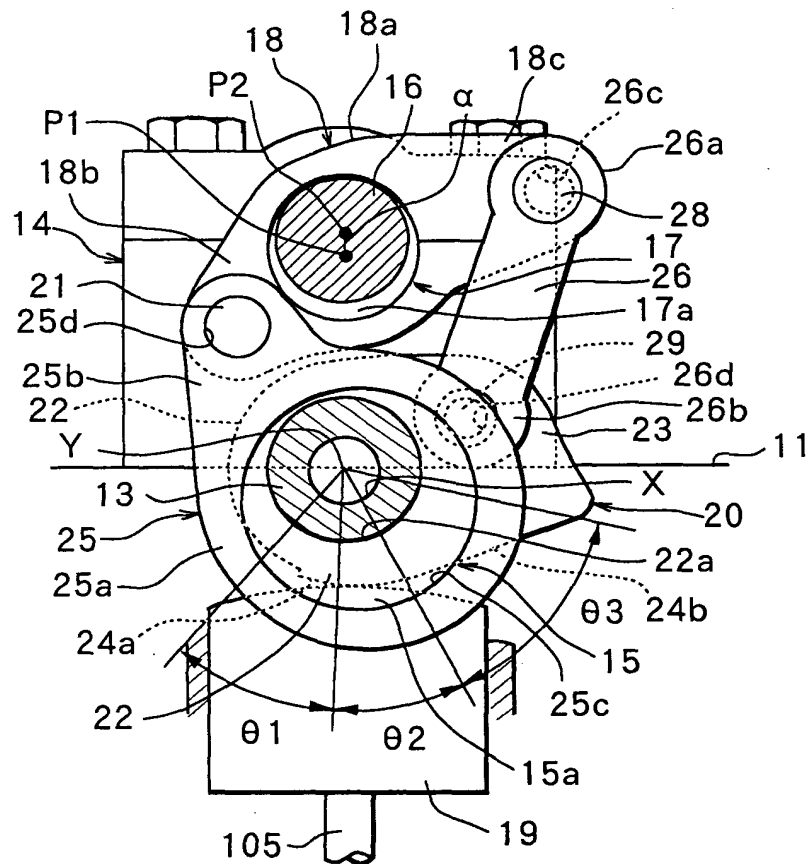


FIG. 3

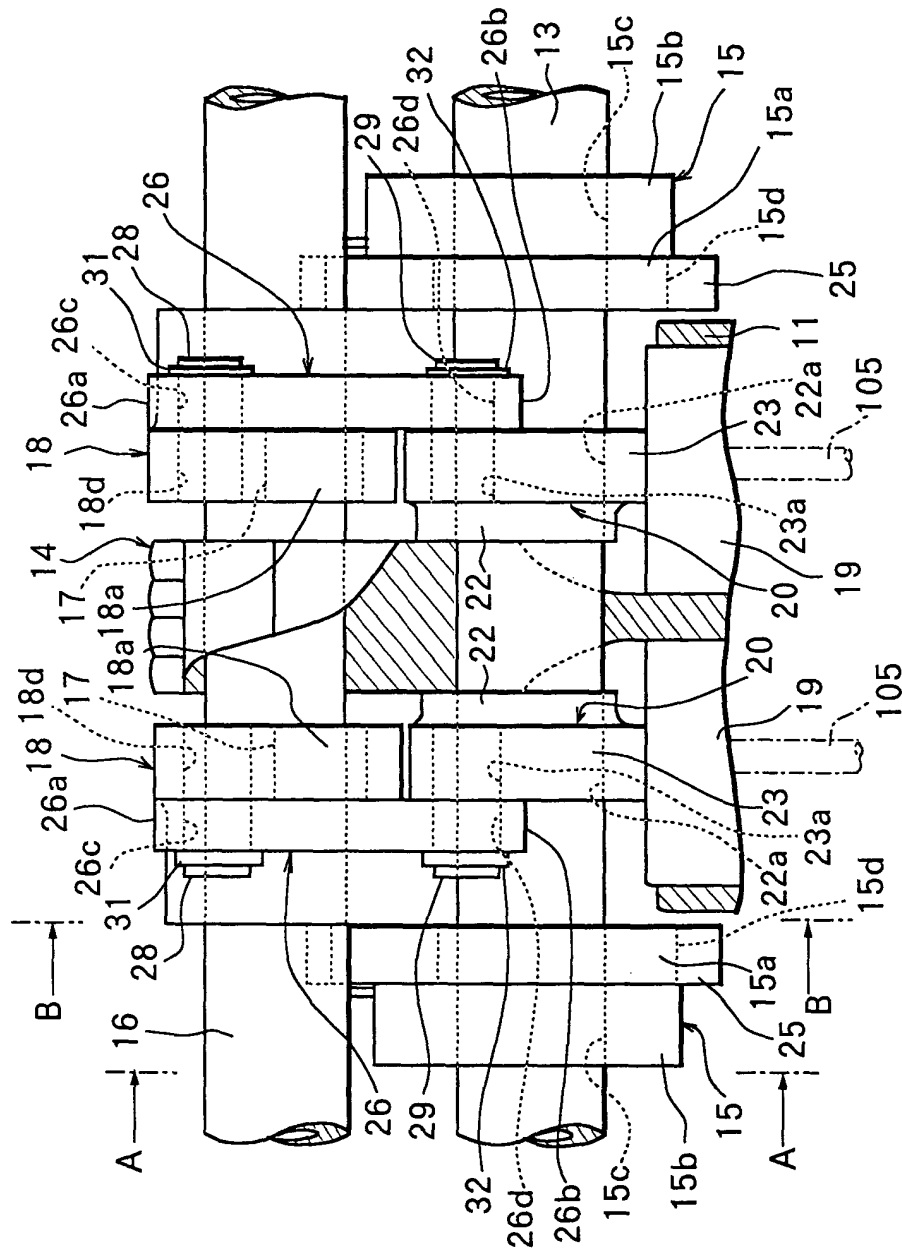


FIG.4

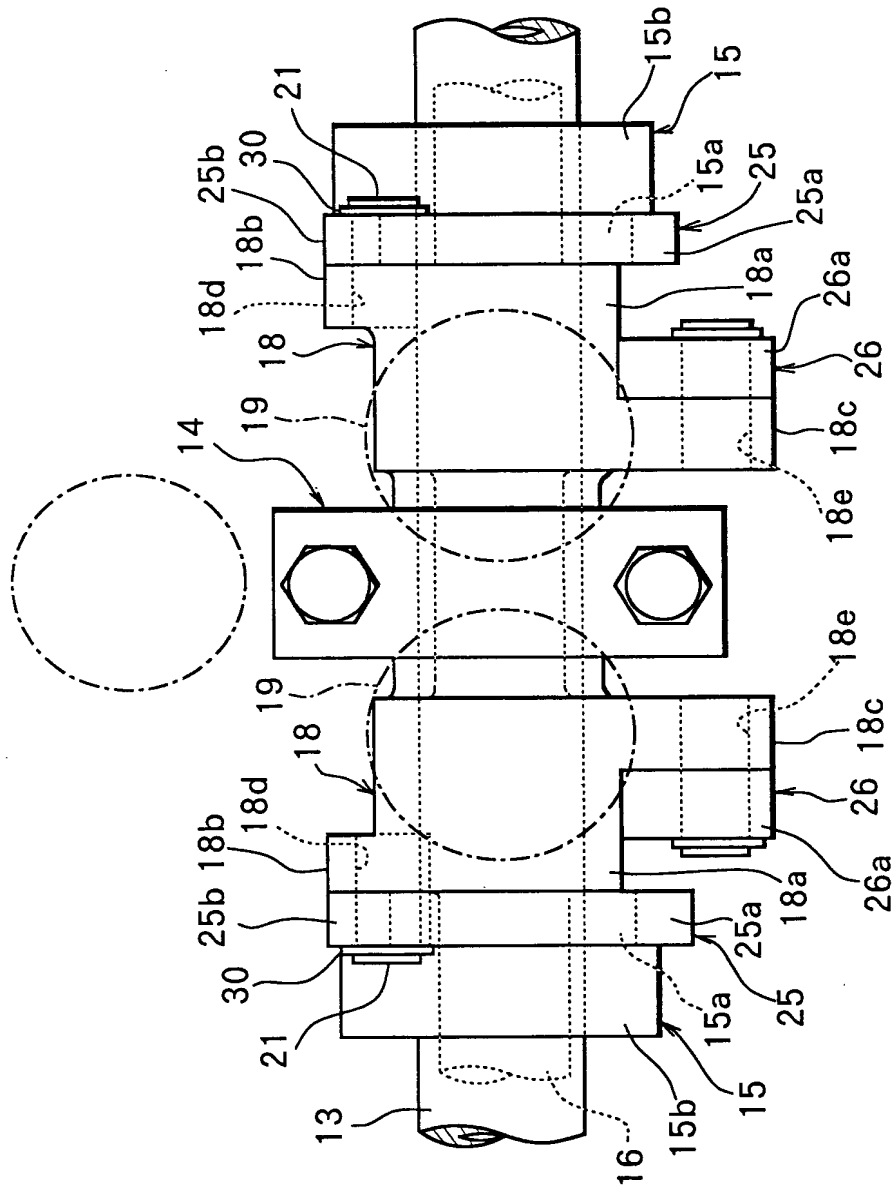


FIG.5

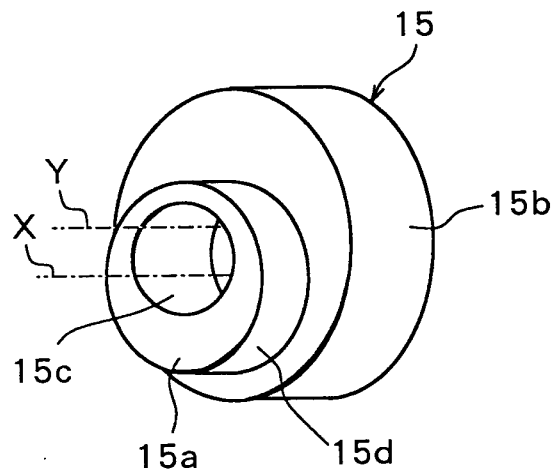


FIG.6

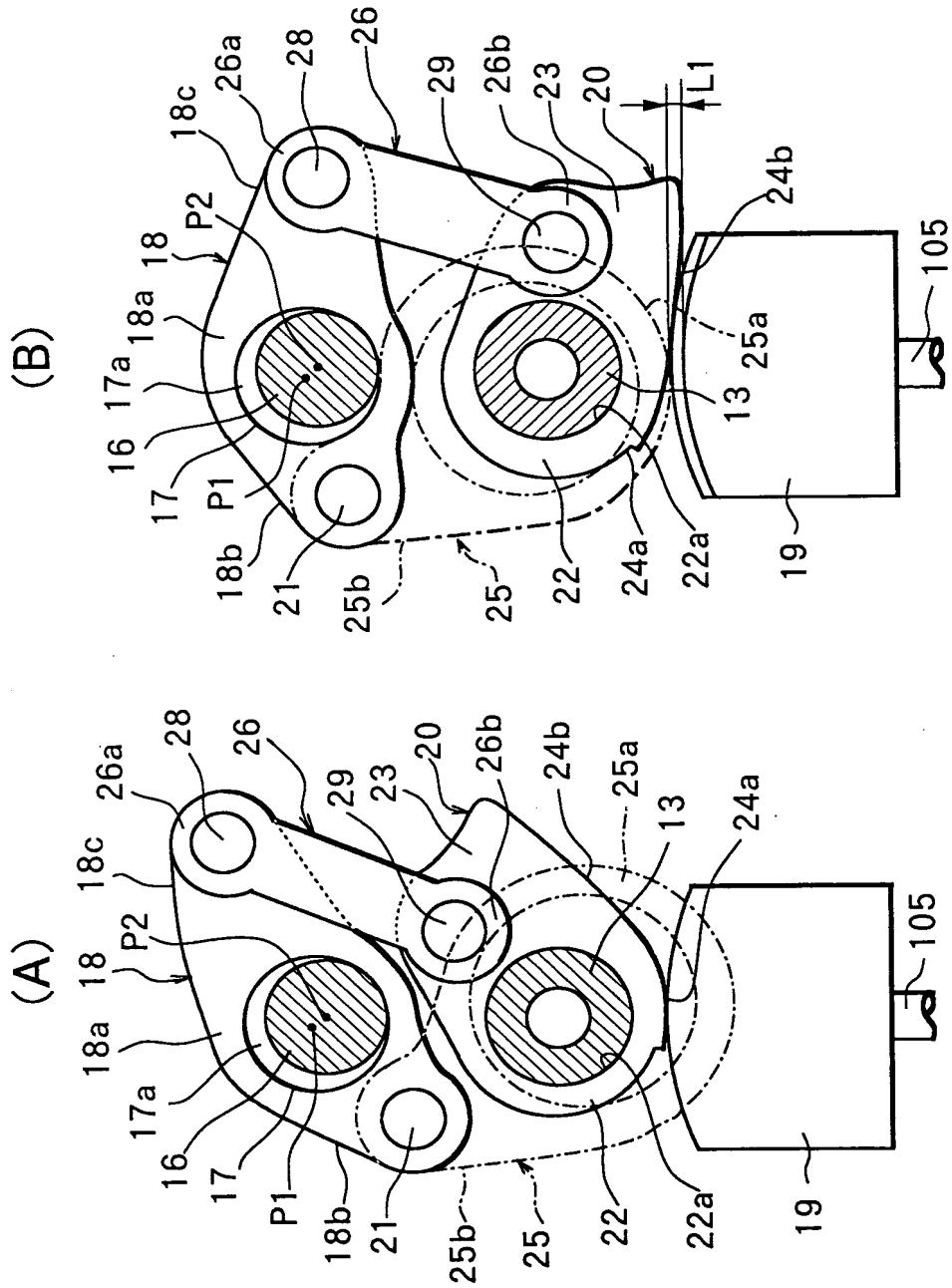


FIG.7

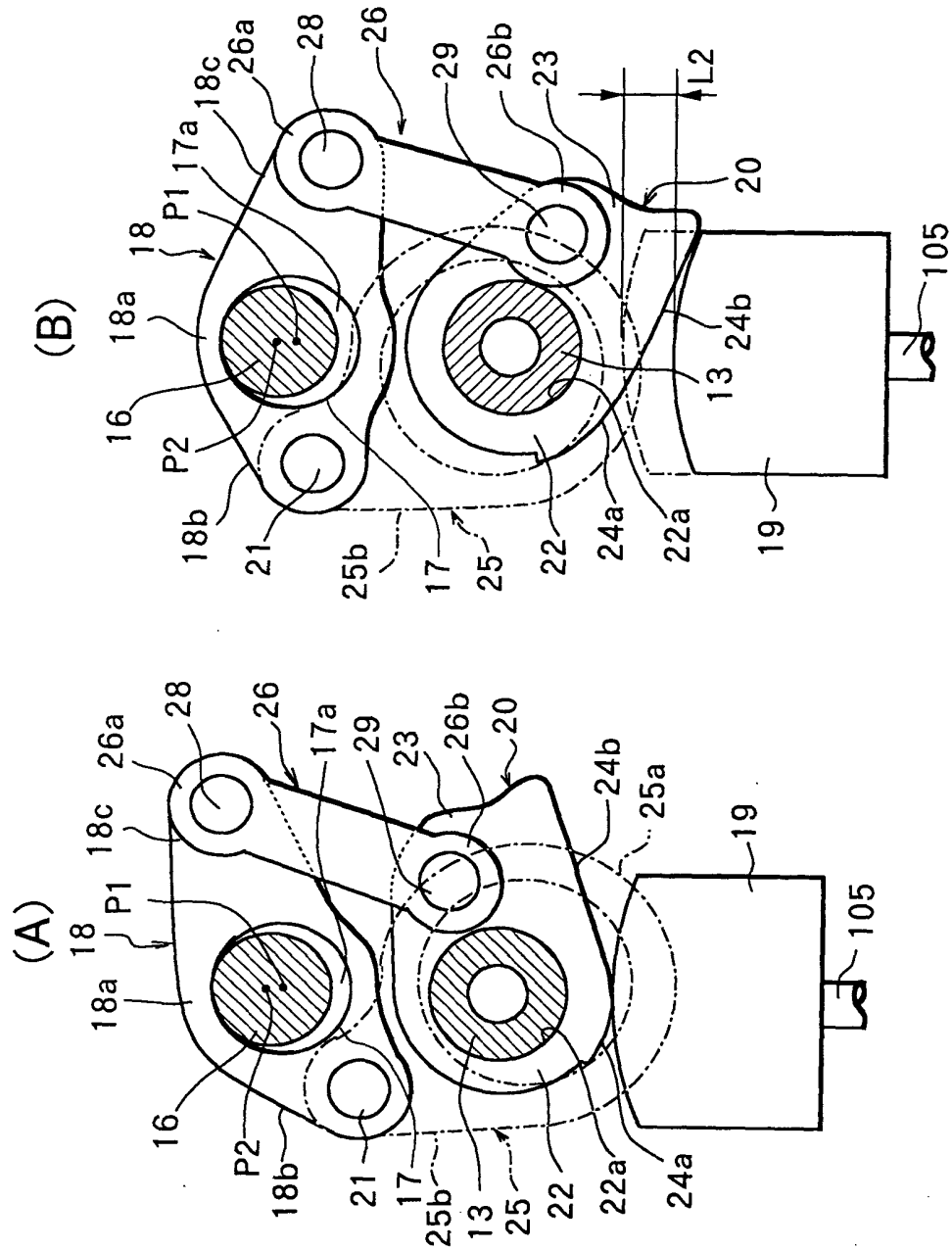


FIG.8

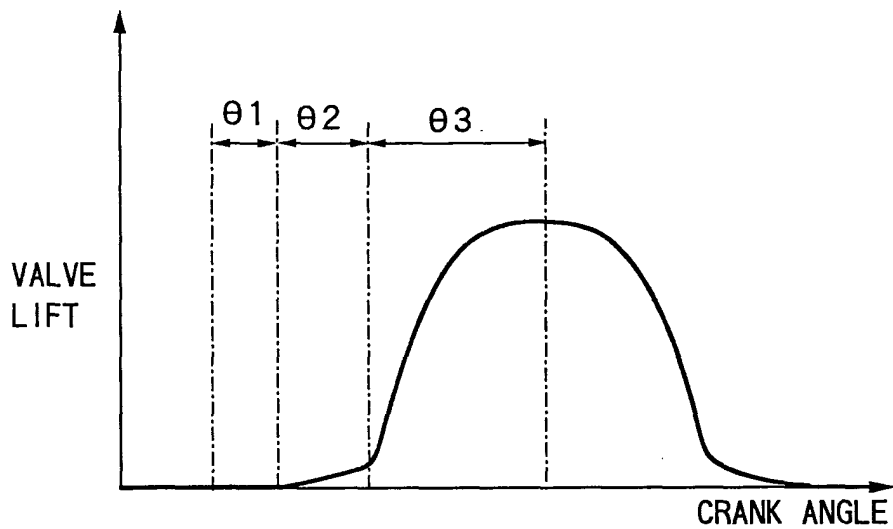
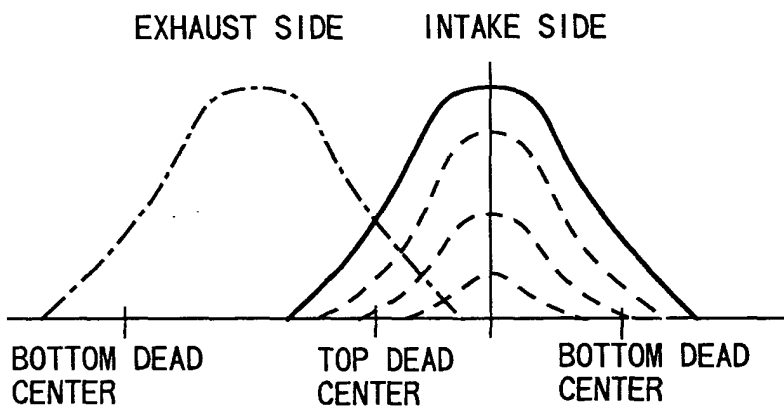
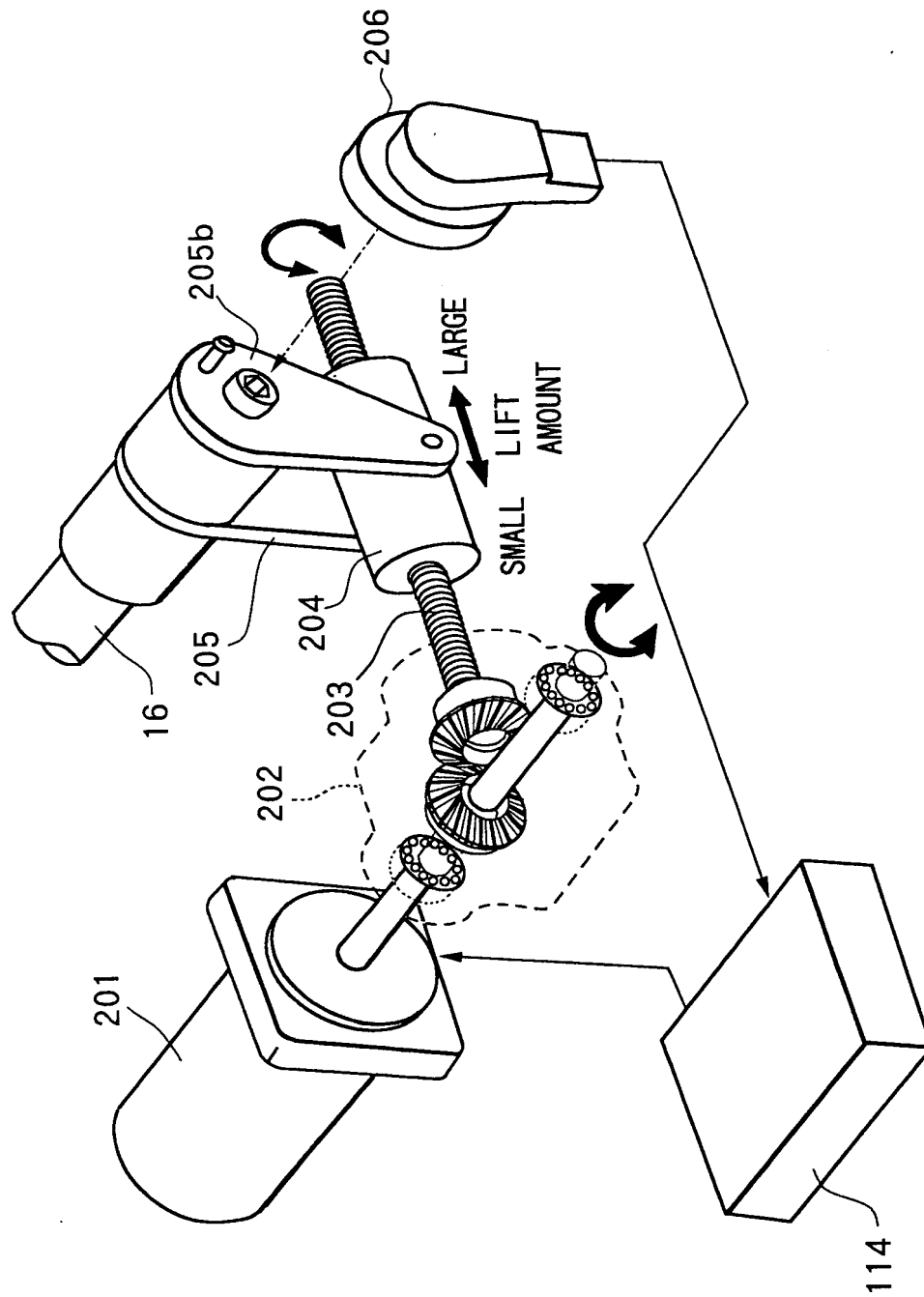


FIG.9



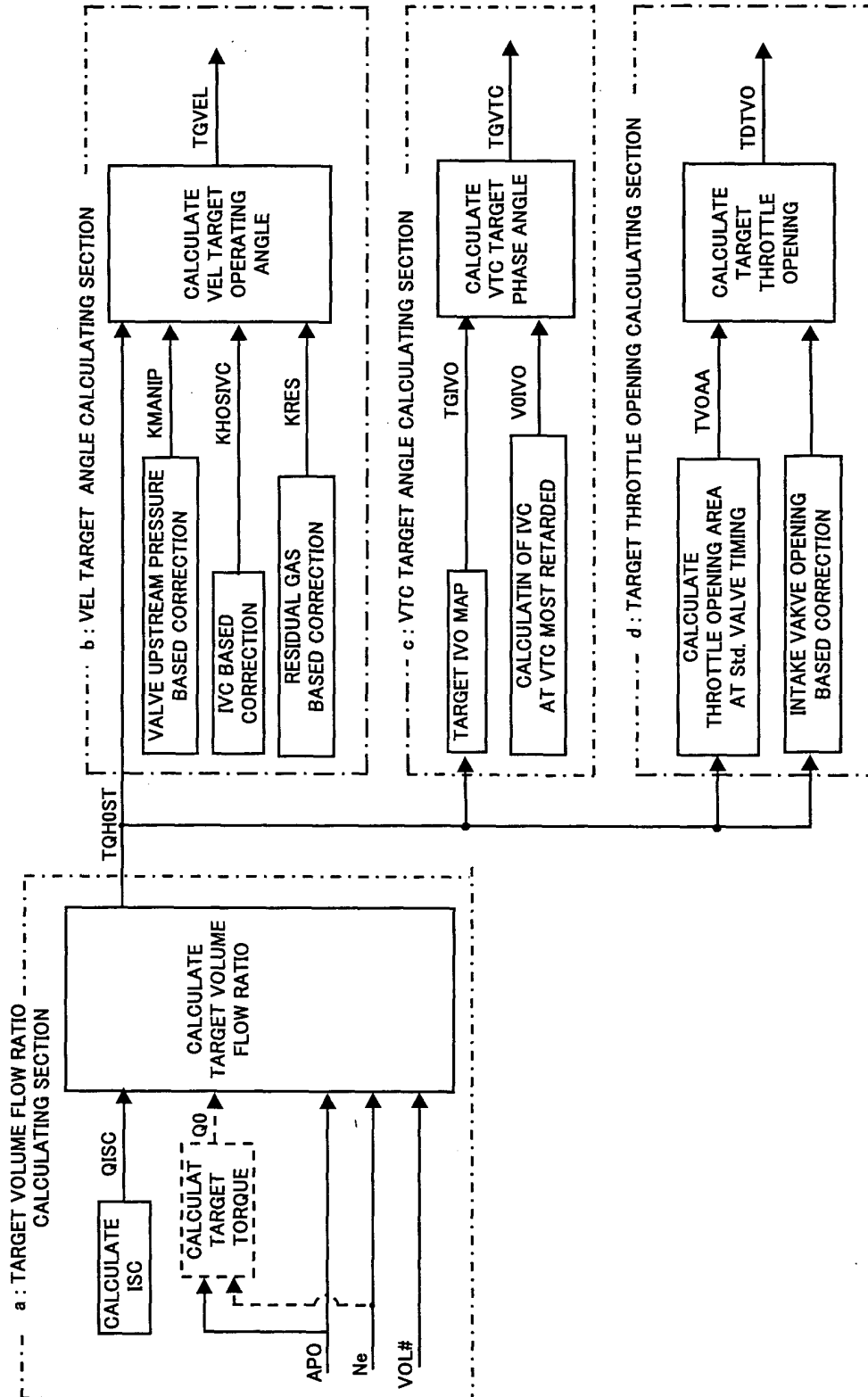
9/28

FIG.10

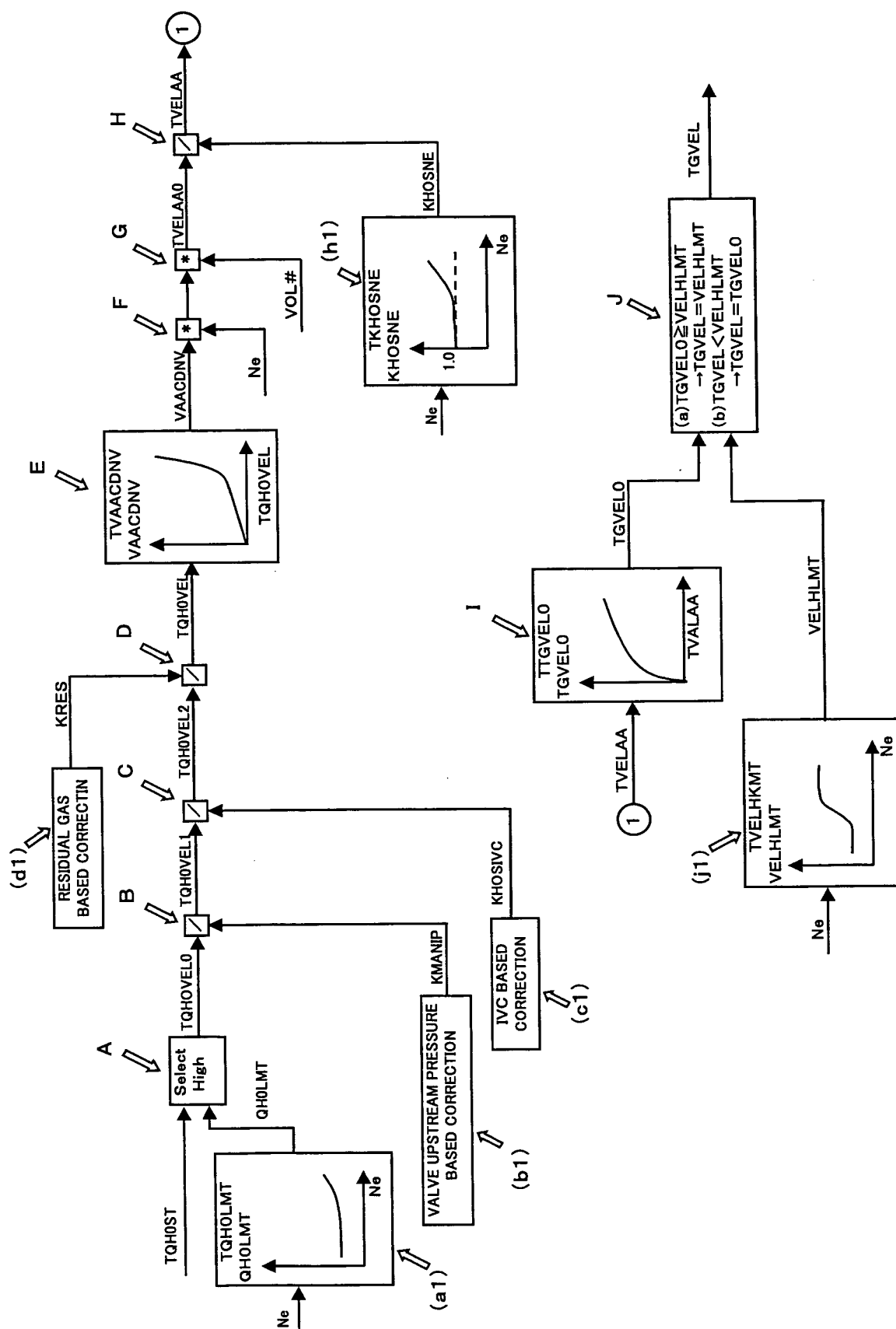


10/28

FIG.11



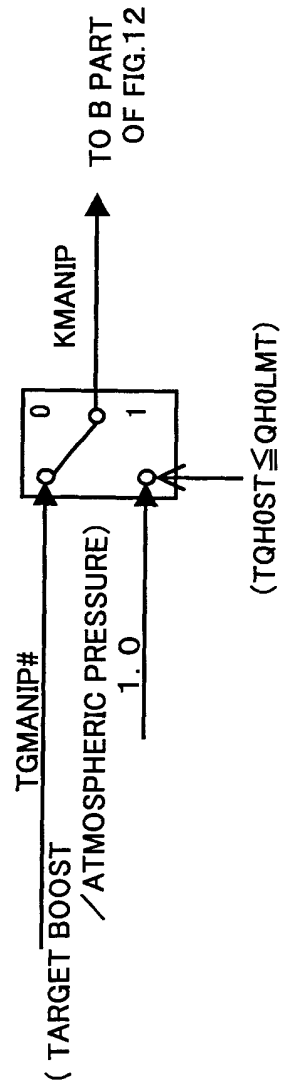
(b-1) SETTING OF VEL TARGET OPERATING ANGLE "TGVEL"



12/28

FIG.13

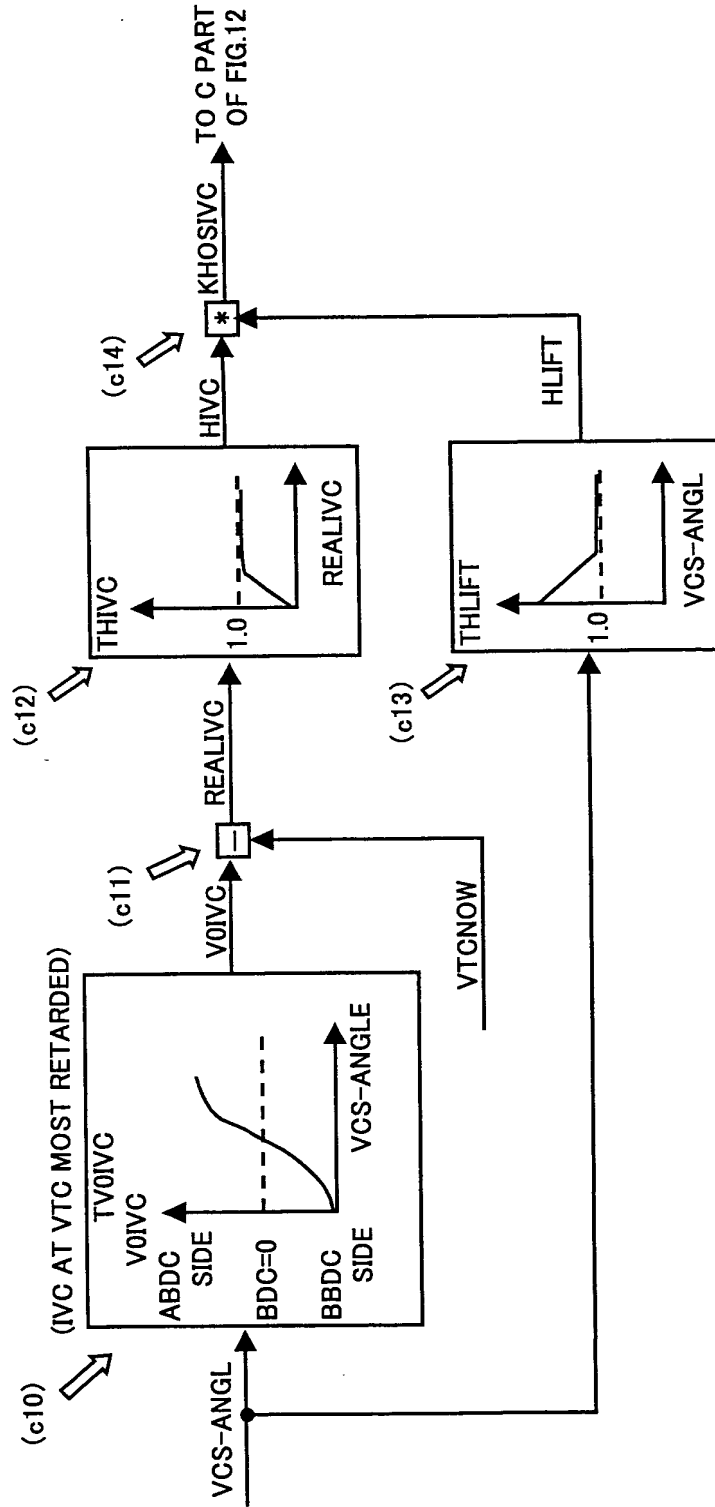
(b-2) SETTING OF VALVE UPSTREAM PRESSURE BASED CORRECTION VALUE "KMANIP"



13/28

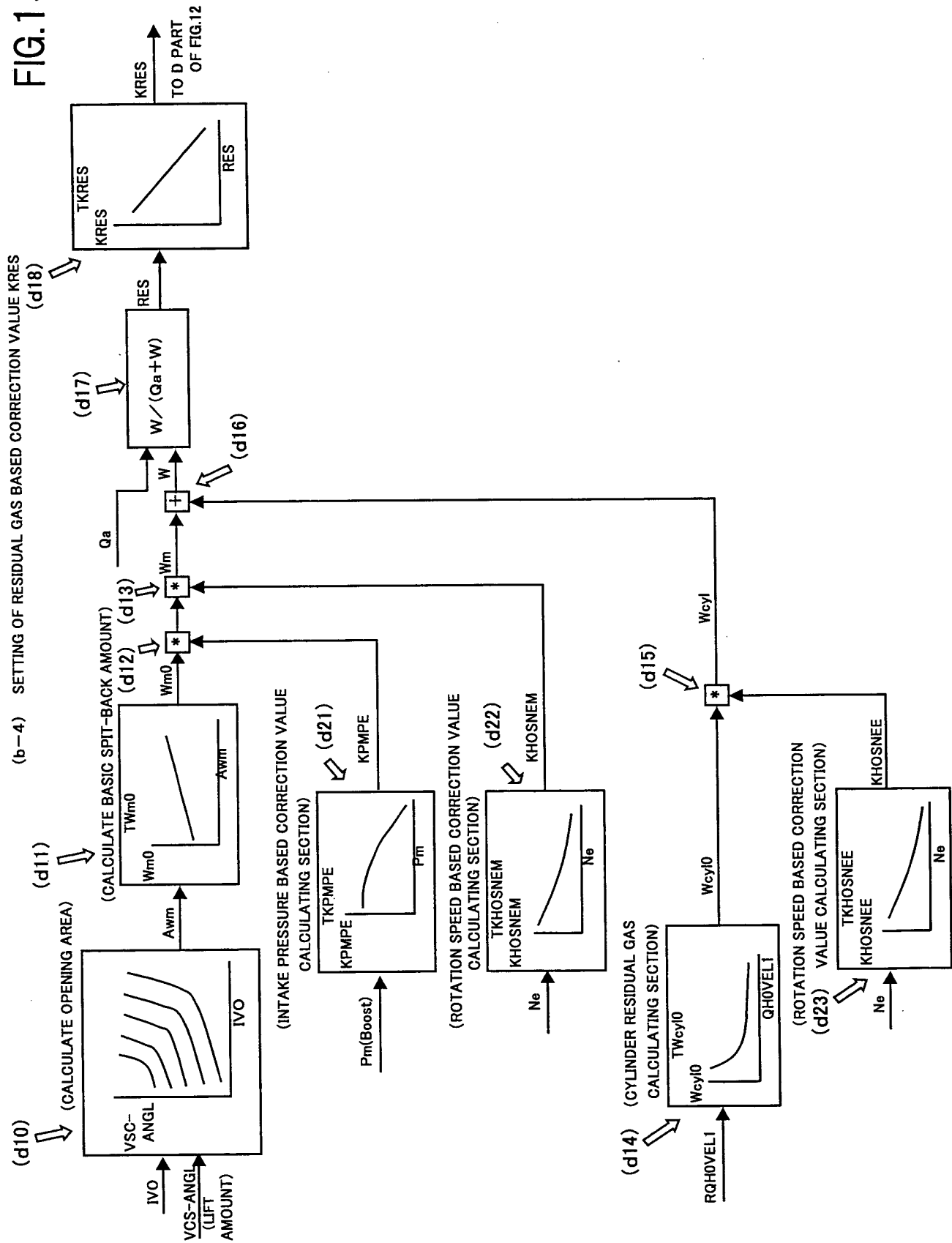
FIG.14

(b-3) CALCULATION OF VALVE TIMING BASED CORRECTION VALUE "KHOSIVC"



14/28

FIG.15



T5/28

FIG.16

CHANGE IN SPIT-BACK GAS AMOUNT W_m
DUE TO ROTATION SPEED N_e

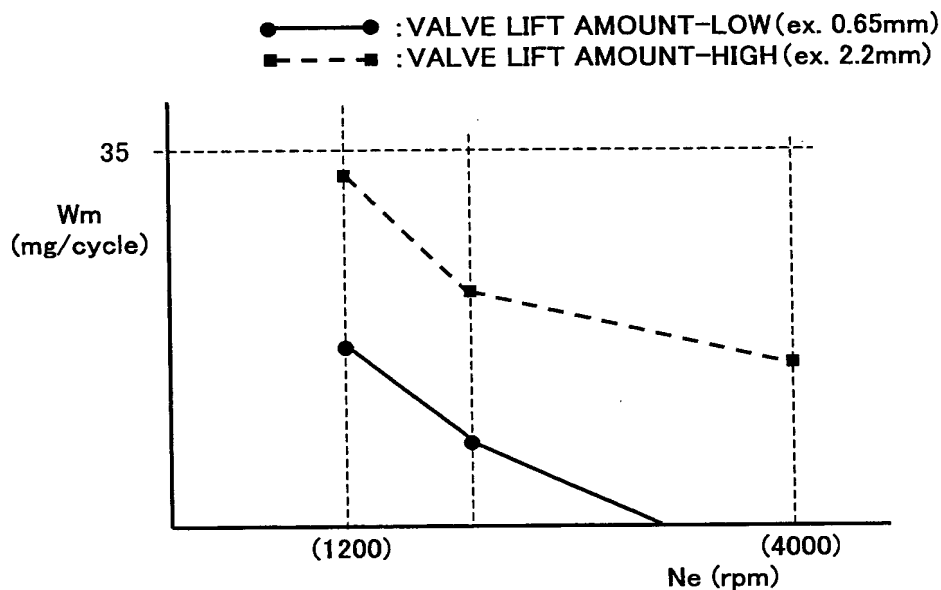


FIG.17

CHANGE IN BASIC RESIDUAL GAS AMOUNT W_{cyl}
DUE TO ROTATION SPEED N_e

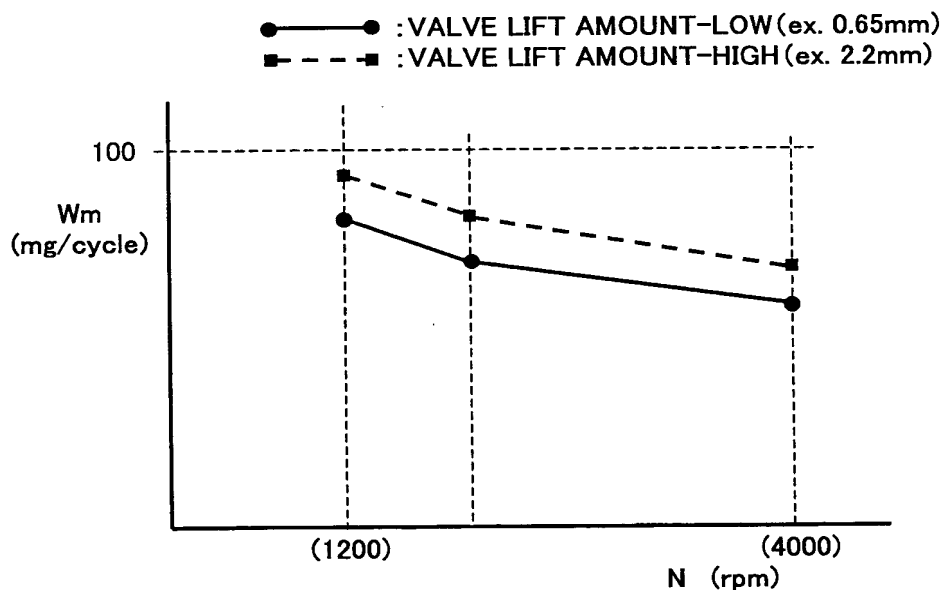


FIG.18

(c) SETTING OF VTC TARGET (PHASE) ANGLE "TGVTC"

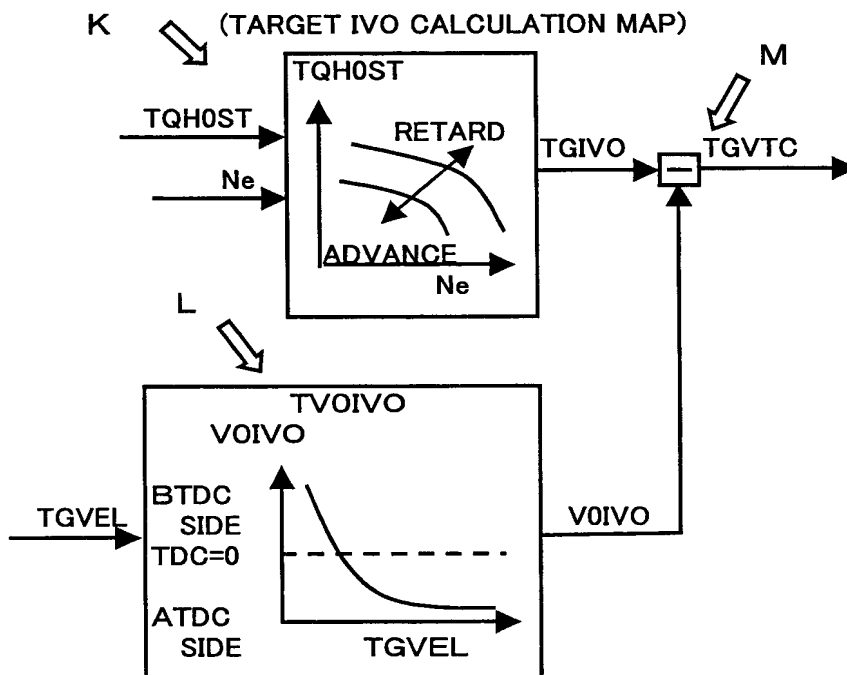
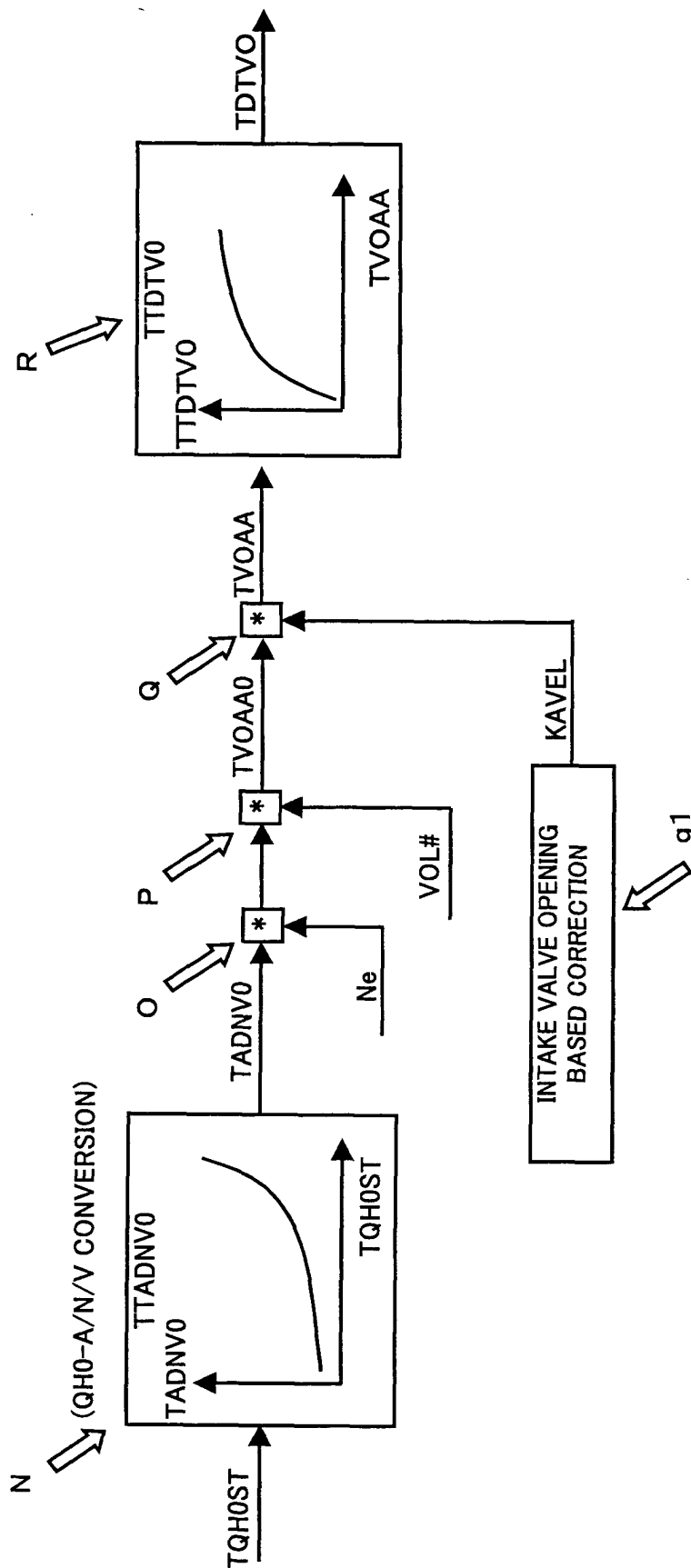


FIG.19

(d-1) SETTING OF TARGET THROTTLE OPENING "TDTV0"



18/28

FIG.20

(d-2) CALCULATION OF INTAKE VALVE OPENING BASED CORRECTION VALUE "KAVEL"

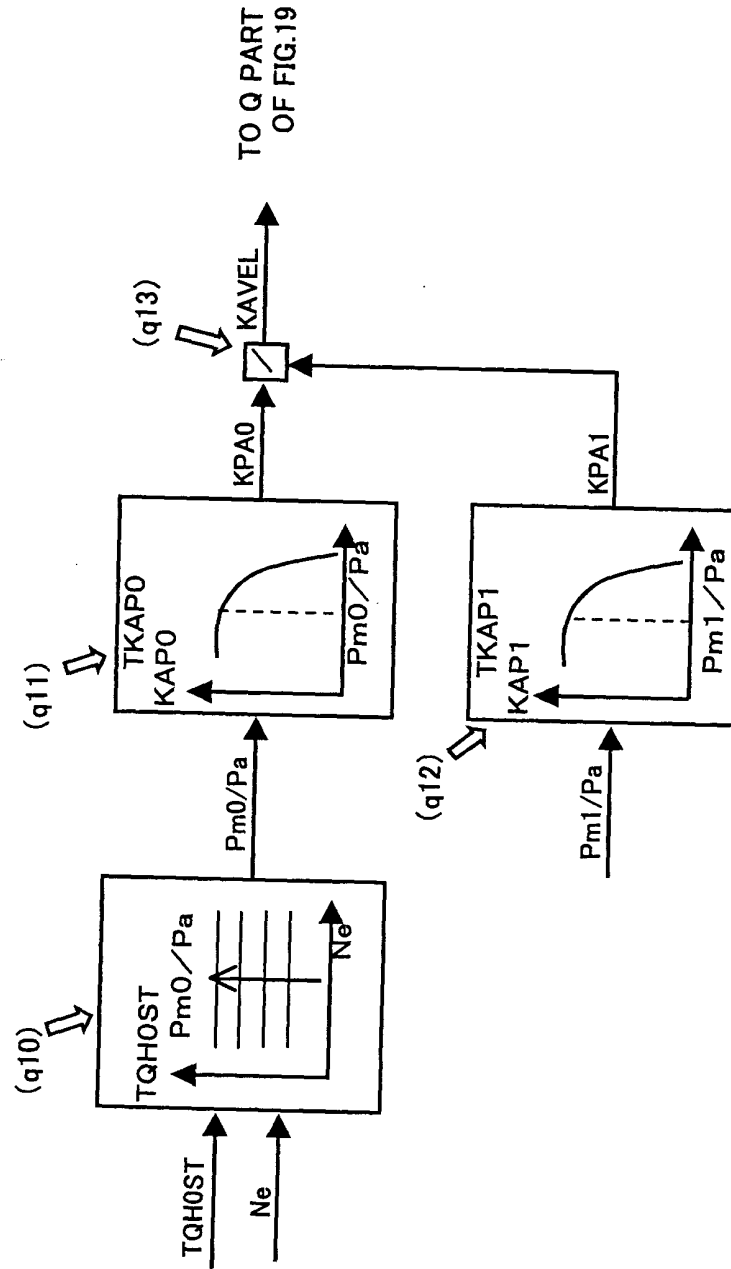
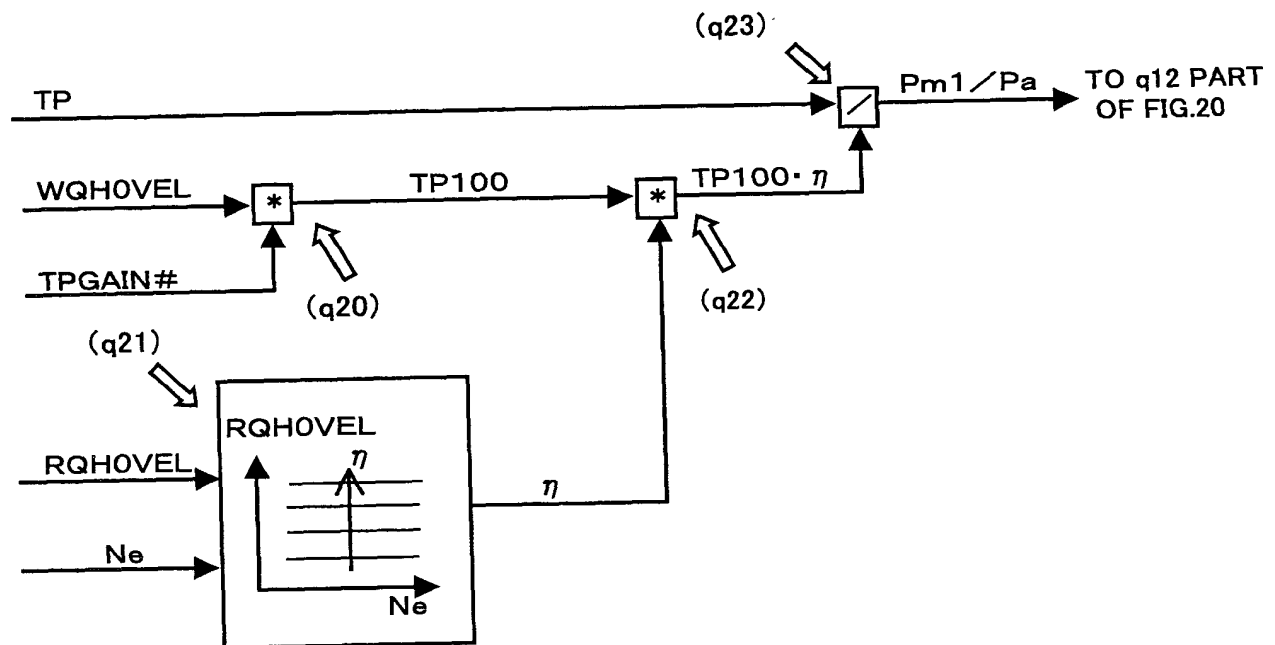


FIG.21

(d-3) CALCURATION OF PRESSURE RATIO(P_{m1}/P_a)
 AT THE TIME WHEN VEL OPERATES



(d-4) CALCULATION OF RATIO "WQH0VEL", "RQH0VEL" OF VOLUME FLOW PASSED THROUGH INTAKE VALVE

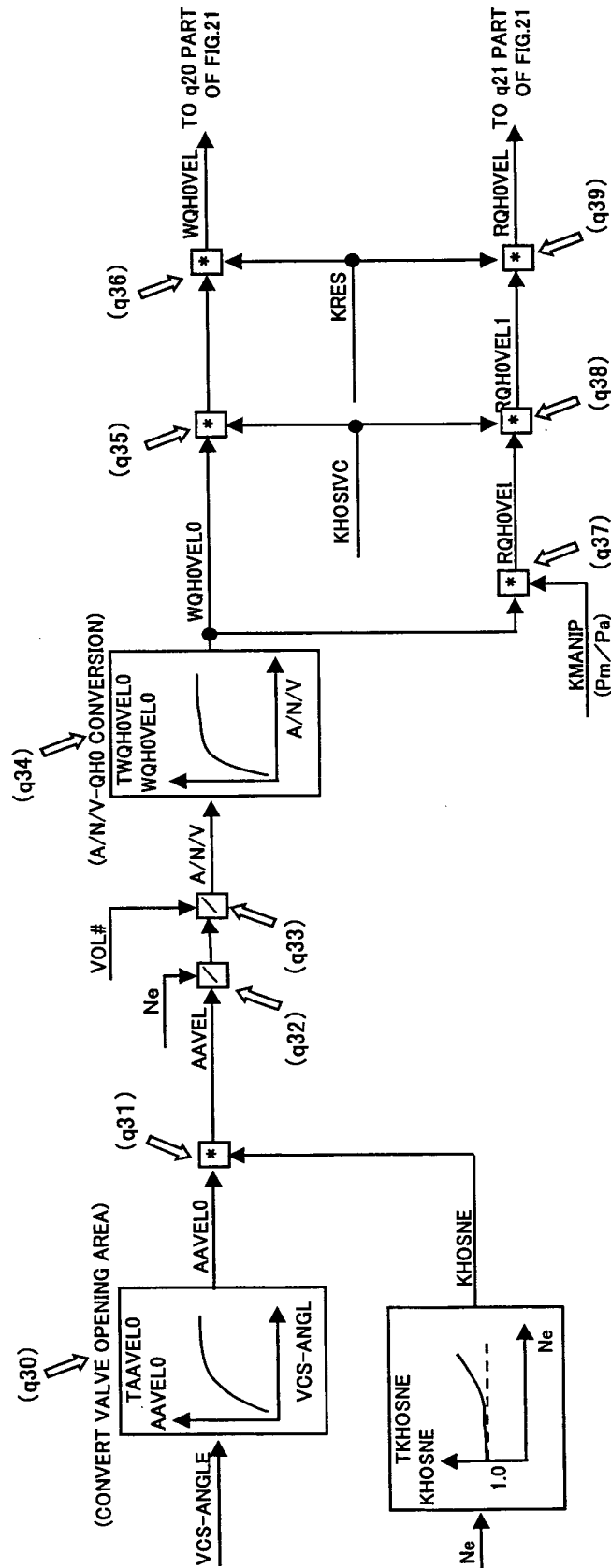
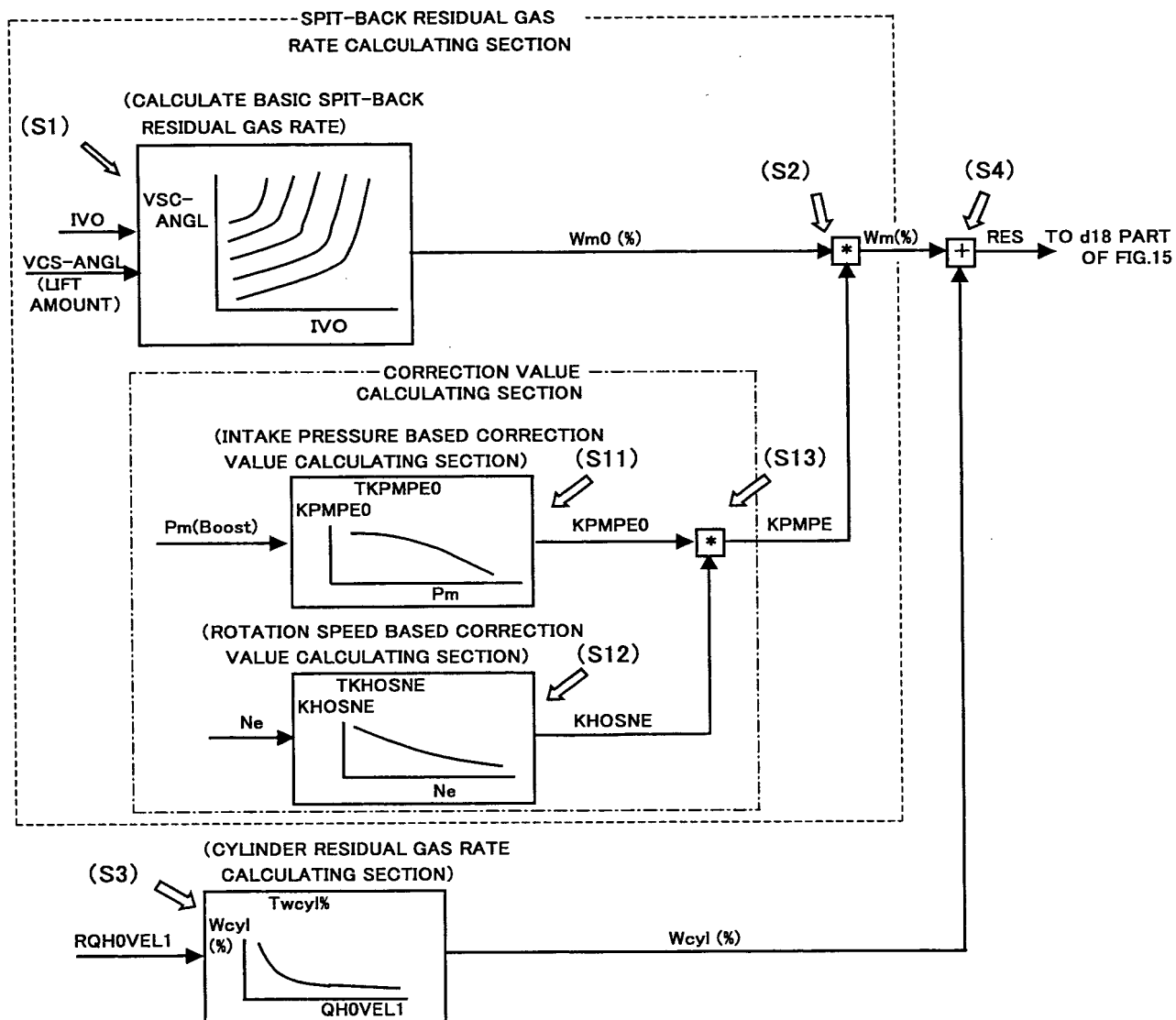


FIG.23

CALCULATION OF RESIDUAL GAS RATE RES - 2



22/28

FIG.24

CALCULATION OF RESIDUAL GAS RATE RES - 3

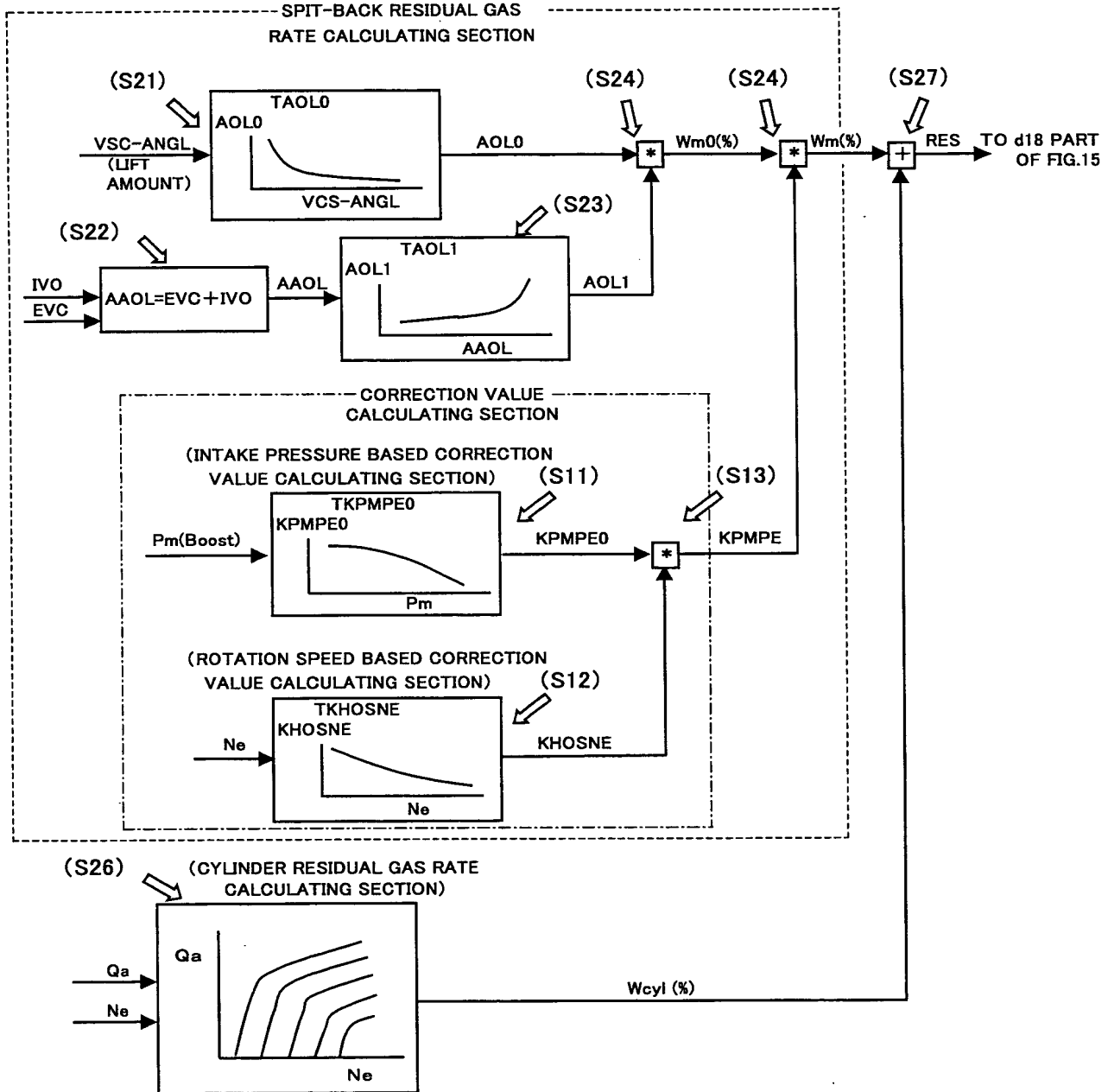


FIG.25

CALCULATION OF RESIDUAL GAS RATE RES - 4

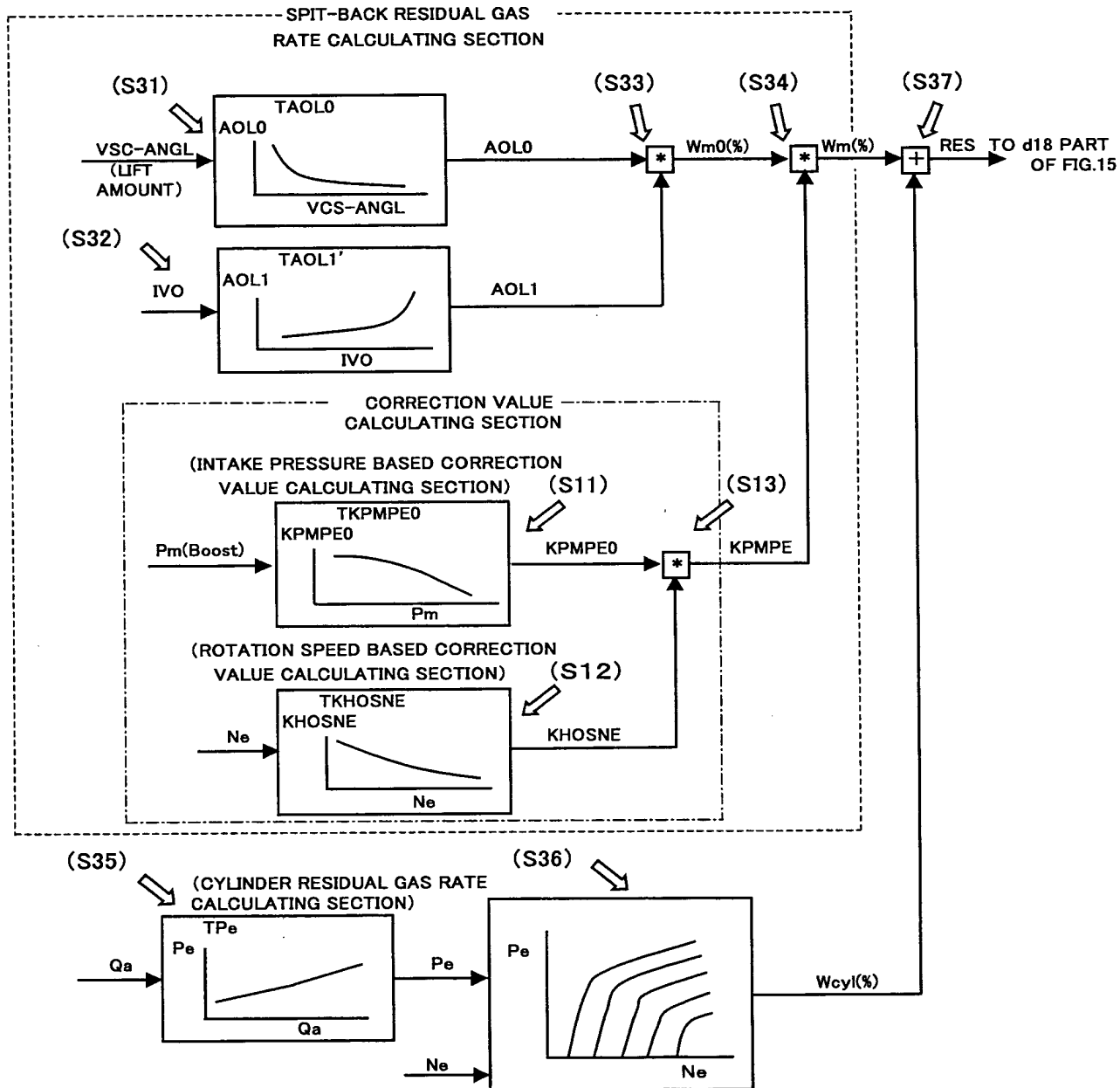


FIG. 27

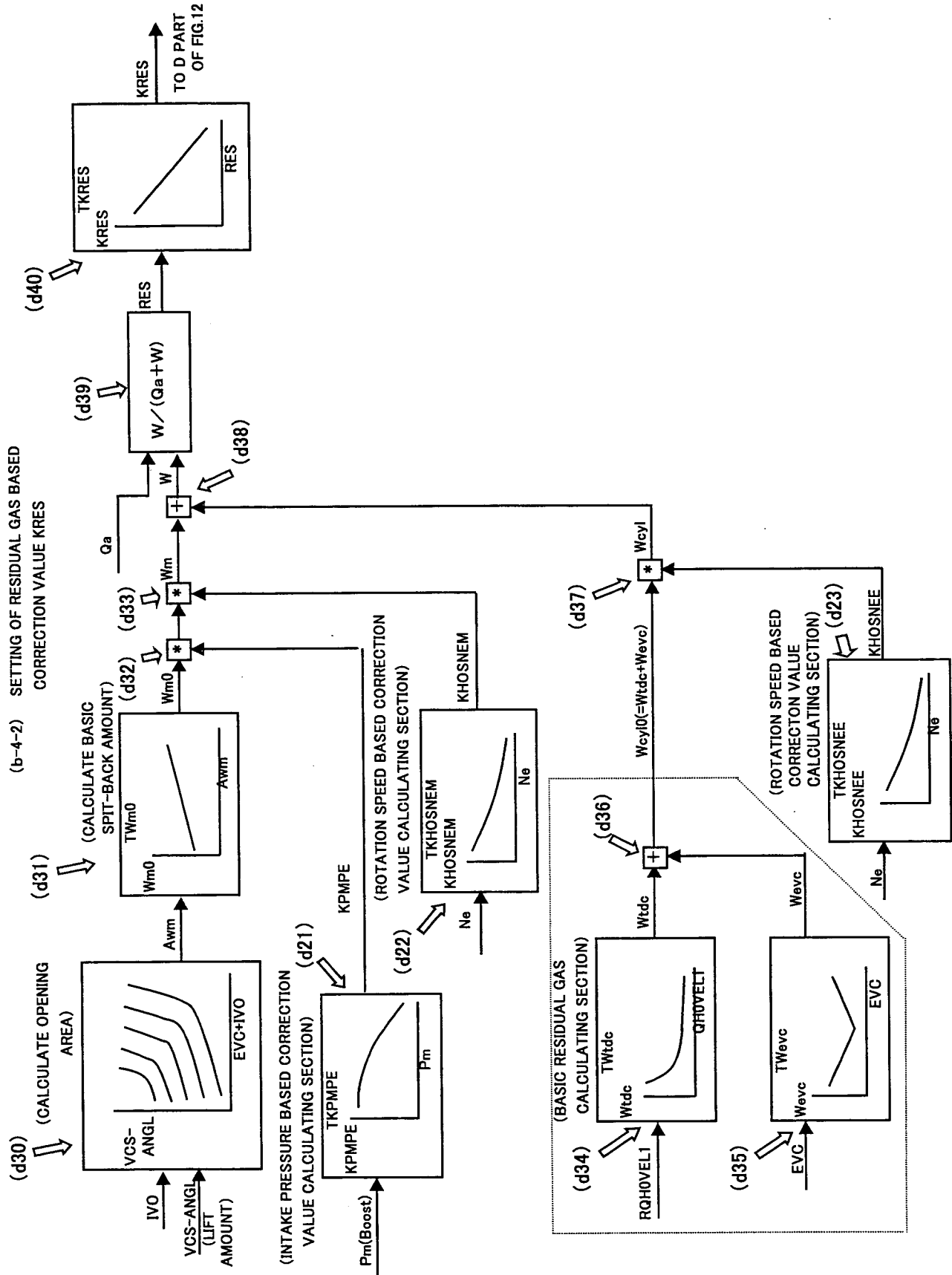


FIG.28

(c) SETTING OF VTC TARGET OPERATING ANGLE

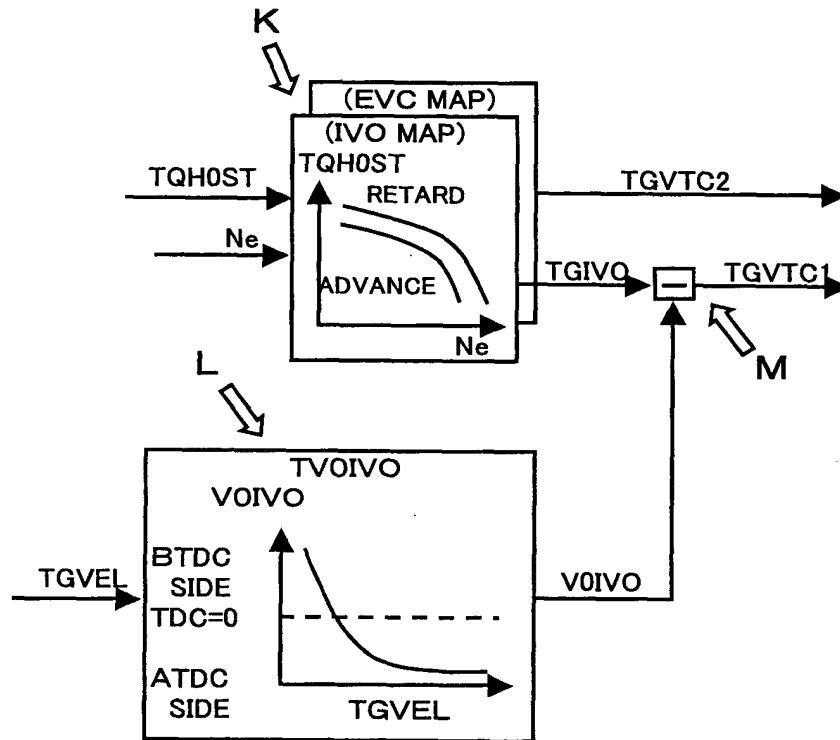
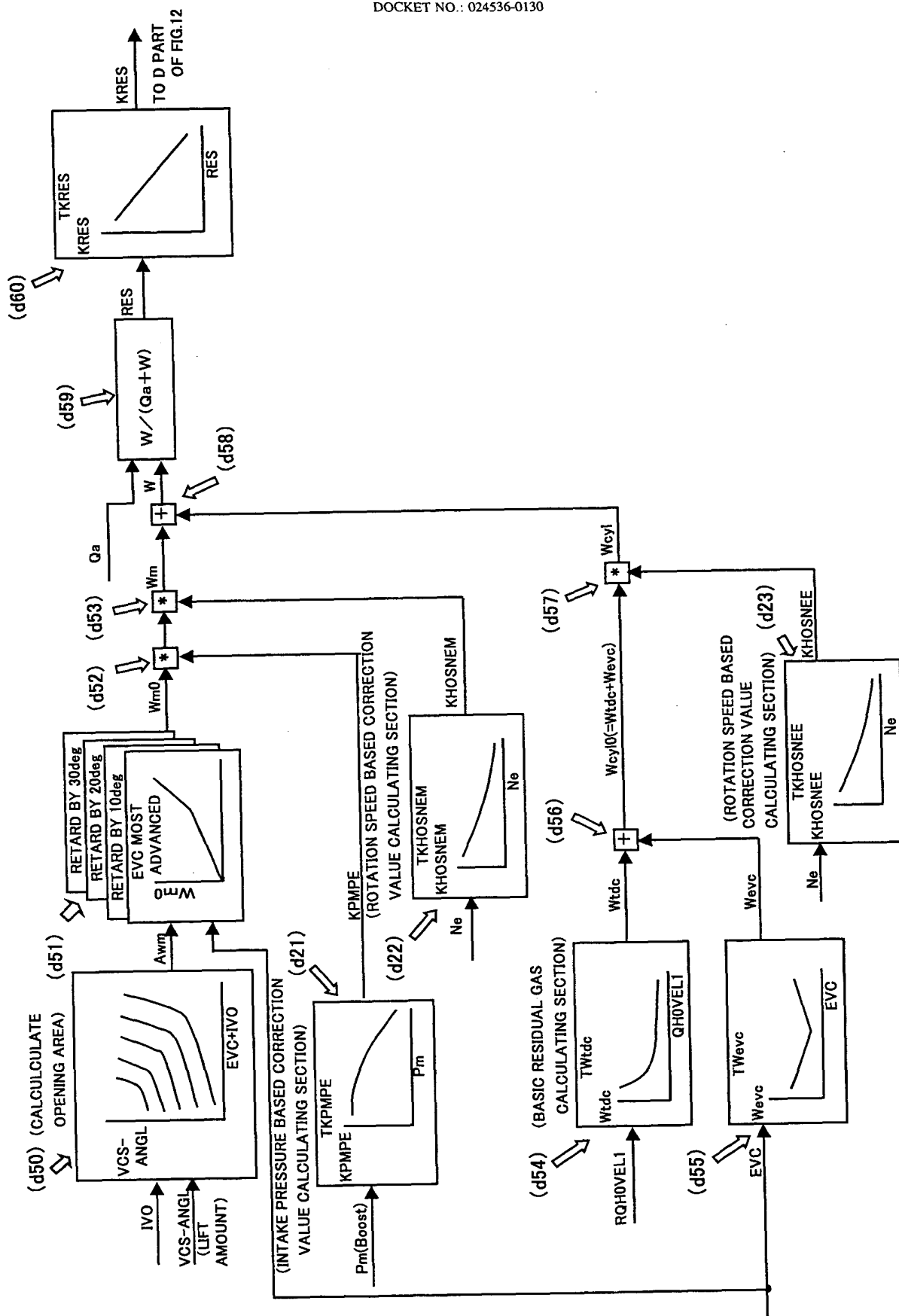


FIG.29

(b-4-3(1)) SETTING OF RESIDUAL GAS BASED CORRECTION VALUE KRES



(b-4) SETTING OF RESIDUAL GAS BASED CORRECTION VALUE KRES

